BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Office of the Executive Engineer
Electrical Division, Yelahanka Zone
Bruhath Bengaluru Mahanagara Palike

"Schedule-B"

Name of Work :- Annual Maintenance and Repairs of Electrical Installation at J.C Yelahanka Zonal Office and bbmp building in Amrutahalli Byatarayanapura Constituency.

Job Code : 008-25-000008 **P-Code: P0294**

Estimat Amount:10.00 Lakhs

Sl.No	Description Of Work	Unit	Qty	Rate In (Rs)	Rates to be quoted in (Rs) In words
1	Skilled Electrician Notification No. KAE 69 tWA 2022, dateds0-l,-2022 Minimum Wages With effect from 30-11.-2022. Minimum wages and VDA from 0L44-2024 to 3143-2025	Days	235	744.55	Seven Hundred Forty Four Rupees and Fifty Five Paise
2	Assistant Technician Semi Skilled Notification No. KAE 69 tWA 2022, dateds0-l,-2022 Minimum Wages With effect from 30-11.-2022. Minimum wages and VDA from 0L44-2024 to 3143-2025	Days	235	715.27	Seven Hundred Fifteen Rupees and Twenty Seven Paise
3	Supplying heavy gauge PVC conduit pipe.....dia.....mm thick confirming to IS2509 with suitable size bends, junction boxes, adhesive paste etc, and fixing using inverted wood plugs incase of RCC ceiling and RCC wall/stone structure or rawl plugs incase of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.19/20 mm dia 2 mm thick	m	70	69.00	Sixty Nine Rupees
4	Supplying heavy gauge PVC conduit pipe.....dia.....mm thick confirming to IS2509 with suitable size bends, junction boxes, adhesive paste etc, and fixing using inverted wood plugs incase of RCC ceiling and RCC wall/stone structure or rawl plugs incase of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.25 mm dia 2 mm thick	m	60	81.00	Eighty One Rupees
5	Extra for Groove cutting in brickwall /CC floor to the suitable depth for concealing of Conduit/ GI pipe and plastering, finishing upto wall surface complete.upto 50 mm conduit in brick wall	m	40	29.00	Twenty Nine Rupees
6	Extra for Groove cutting in brickwall /CC floor to the suitable depth for concealing of Conduit/ GI pipe and plastering, finishing upto wall surface complete.upto 50 mm conduit CC floor	m	40	69.00	Sixty Nine Rupees
7	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box,elbows,screwsatan interval of 300 mm as required.25 mm	m	100	35.00	Thirty Five Rupees
8	Supplying PVC flexible conduit pipe....mm dia fixing on surface over inverted tape red wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely.25 mm	m	50	22.00	Twenty Two Rupees

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9	Supplying and fixing surface /flush mounting unbreakable PVC modular box suitable for mounting modular switch plate swith due groove cutting in Brick /C.Cwall, including necessary rawlplugs,Machine/NF screws etc., complete.3 Way	Each	10	124.00	One Hundred Twenty Four Rupees
10	Supplying and fixing surface /flush mounting unbreakable PVC modular box suitable for mounting modular switch plate swith due groove cutting in Brick /C.Cwall, including necessary rawlplugs,Machine/NF screws etc., complete.6 Way	Each	20	173.00	One Hundred Seventy Three Rupees
11	Supplying and fixing surface /flush mounting unbreakable PVC modular box suitable for mounting modular switch plate swith due groove cutting in Brick /C.Cwall, including necessary rawlplugs,Machine/NF screws etc., complete.8 Way	Each	15	219.00	Two Hundred Nineteen Rupees
12	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/ PVC box.3 Module	Each	10	161.00	One Hundred Sixty One Rupees
13	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/ PVC box.6 Module	Each	20	234.00	Two Hundred Thirty Four Rupees
14	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/ PVC box.8 Module	Each	15	284.00	Two Hundred Eighty Four Rupees
15	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A One Way Switch	Each	50	102.00	One Hundred Two Rupees
16	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A Two Way Switch	Each	5	166.00	One Hundred Sixty Six Rupees
17	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.Stepped Fan Regulator Two Module	Each	25	357.00	Three Hundred Fifty Seven Rupees
18	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.16A One Way Switch	Each	10	180.00	One Hundred Eighty Rupees
19	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A Bell Push	Each	10	177.00	One Hundred Seventy Seven Rupees
20	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.32A DP Switch	Each	10	326.00	Three Hundred Twenty Six Rupees
21	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6/16A Universal Socket	Each	10	236.00	Two Hundred Thirty Six Rupees
22	Wiring for lighting /power circuit using one of FRLS PVC insulated 1100V grade,multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:2010.1 Sq mm	m	350	19.00	Nineteen Rupees

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23	Wiring for lighting /power circuit using one of FRLS PVC insulated 1100V grade,multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:2010.1.5 Sq mm	m	300	26.00	Twenty Six Rupees
24	Wiring for lighting /power circuit using one of FRLS PVC insulated 1100V grade,multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:2010.4 Sq mm	m	100	63.00	Sixty Three Rupees
25	Supplying and drawing Flexible Multi core Cable manufacture dwith electrolytic grade flexible copper with low conductor confirming to IS8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100 Volts as per IS-694:1990.2C x 1.5 Sq mm	m	200	53.00	Fifty Three Rupees
26	Supplying and drawing Flexible Multi core Cable manufacture dwith electrolytic grade flexible copper with low conductor confirming to IS8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100 Volts as per IS-694:1990.4C x 2.5 Sq mm	m	50	148.00	One Hundred Forty Eight Rupees
27	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 Volts as per IS-694:1990.3C x 4 Sqmm	m	50	168.00	One Hundred Sixty Eight Rupees
28	Supplying push button operated direct online starter with an antiweld silver cadmiumoxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrosion treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 230/440 V 1/3 phase motor upto 5 HP.	Each	2	1927.00	One Thousand Nine Hundred Twenty Seven Rupees
29	Supplying of Switch disconnector fuse unit (TPN)HRC type (but without HRC fuses). With AC-23A duty and as per IS- 13947. 63 A	Each	2	2312.00	Two Thousand Three Hundred Twelve Rupees
30	Supplying of Switch disconnector fuse unit (TPN)HRC type (but without HRC fuses). With AC-23A duty and as per IS- 13947. 100 A	Each	4	4503.00	Four Thousand Five Hundred Three Rupees
31	Supplying and fixing HRC fuse units base on existing switch / panel board.32 to 63 A	Each	6	612.00	Six Hundred Twelve Rupees
32	Supply and fixing of 3 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.40 A	Each	3	2258.00	Two Thousand Two Hundred Fifty Eight Rupees
33	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 A	Each	1	16606.00	Sixteen Thousand Six Hundred Six Rupees

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34	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Thermal Magnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% Ics). In 4P MCCB, all Poles should have protection for Short-Cicrcuit/Over Load.For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism.FOUR POLE100Amps 25kA.	Each	1	8487.00	Eight Thousand Four Hundred Eighty Seven Rupees
35	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32Amps SP	Each	5	415.00	Four Hundred Fifteen Rupees
36	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 Amps DP	Each	5	739.00	Seven Hundred Thirty Nine Rupees
37	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.40 Amps TPN	Each	2	3044.00	Three Thousand Forty Four Rupees
38	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system.48" Sweep (1200mm) Regular model	Each	20	2984.00	Two Thousand Nine Hundred Eighty Four Rupees
39	Supplying wall mounting fan suitable to operate at single- phase 230v A.C. supply.400mm Sweep	Each	15	2492.00	Two Thousand Four Hundred Ninety Two Rupees
40	Supplying, installation, testing & commissioning of 12V DC, AH batteries in poly propylene container for U.P.S. Sealed maintenance free batteries.150 AH capacity	Each	1	15895.00	Fifteen Thousand Eight Hundred Ninety Five Rupees
41	Supplying installation testing and commissioning of heavy duty compressor suitable for window/split type A/C.1 Ton	Each	4	13000.00	Thirteen Thousand Rupees
42	Supply and fixing of condensing coil for Split Air Conditioners.1.5 Ton	Each	2	9000.00	Nine Thousand Rupees
43	Supplying and fixing capacitor's (of approvedmake) forwindow /split air conditioners. 25 to 45mfd running capacitor.	Each	3	805.00	Eight Hundred Five Rupees
44	Supplying and fixing the fan motor for blowers and condenser of 1/5 HP, single shaft/double shaft suitable for split /window air conditioners.	Each	2	6116.00	Six Thousand One Hundred Sixteen Rupees

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45	Supplying & fixing of retrofit type-LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT6500 degree K,CRI>70%. efficacy>80 lumen per W, life>25000 burning hours and Compliance to IS 10322/ IEC60598, LM79 & LM80 .The LED are driven by HF electronic driver integrated in the system, with PF>0.95, power loss should.9W, 6500K	Each	39	154.00	One Hundred Fifty Four Rupees
46	Supplying & fixing of retrofit type-LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT6500 degree K,CRI>70%. efficacy>80 lumen per W, life>25000 burning hours and Compliance to IS 10322/ IEC60598, LM79 & LM80 .The LED are driven by HF electronic driver integrated in the system, with PF>0.95, power loss should.15W, 6500K	Each	22	326.00	Three Hundred Twenty Six Rupees
47	Supplying of .....feet -PVC Batten with integrated LED tube .... W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.LED light fitting 1 x 4' - 20/22 W	Each	25	690.00	Six Hundred Ninety Rupees
48	Supplying of recess mounting non integrated type LED down light ..... W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clamps, LED of Power/COB with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.15-18W	Each	15	1512.00	One Thousand Five Hundred Twelve Rupees
49	Supply of round/square recess/surface mounted rolling type LED Down light with .....W GU 10 LED Lamp Rib Fabricated from Die cast aluminium with white powder coated prewired to mains connector & has swiveling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 15-18W	Each	10	1250.00	One Thousand Two Hundred Fifty Rupees
50	Supplying and fixing one of 230 volts bell or buzzer and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws.	Each	5	189.00	One Hundred Eighty Nine Rupees

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51	Supplying and fixing one of 230 V Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws with Remote.Musical	Each	3	434.00	Four Hundred Thirty Four Rupees
52	Supplying and fixing one of 230 V Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws with Remote.Remote	Each	3	1190.00	One Thousand One Hundred Ninety Rupees
53	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac,etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing.1200MM	Each	10	765.00	Seven Hundred Sixty Five Rupees
54	Supplying and fixing of T8 36/40W Fluorescent Tube with 36W power consumption with initial lumen of 2750 (3000 deg K / 4000 deg K) with rated avg life of greater than 10000 hrs.Operating voltage range from 180V to 265V. 50Hz AC power Supply	Each	20	63.00	Sixty Three Rupees
55	Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes : Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes, Class H Insulated copper wire, Vacuum impregnated high quality with Low loss silicon steel lamination operated on 240V,50Hz supply with IEC 60920 (Safety) & IEC 60921(Performance). Operating voltage range from 180V to 265V, 50Hz AC power Supply.	No	15	293.00	Two Hundred Ninety Three Rupees
56	Supplying & fixing LED Drivers suitable for 5700K LED fitting Indoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply 9W to 12W 5700K suitable for indoor LED fitting.	Each	10	420.00	Four Hundred Twenty Rupees
57	Supplying & fixing LED Drivers suitable for 5700K LED fitting Indoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply 15W to 18W 5700K suitable for indoor LED fitting.	Each	8	611.00	Six Hundred Eleven Rupees
58	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff LT Cable 35 to 95 Sqmm	KM	0.10	31139.00	Thirty One Thousand One Hundred Thirty Nine Rupees
59	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975.25 Sqmm, 35 Sqmm, 3.5 Core, (14 GI Strips - 4 x 0.8 mm)	KM	0.10	154062.00	One Lac Fifty Four Thousand Sixty Two Rupees

I am prepared to take up the above work at rates quoted in the Schedule 'B'

Contractor

EXECUTIVE ENGINEER (ELEC)
BBMP, YELAHANKA DIVISION